No.



9600135

## HELE UNITED SHAMES OF AMERICA

TO ALL TO WHOM THESE; PRESENTS; SHALL COME;

# Illinois Agricultural Experiment Station

THERE HAS BEEN PRESENTED TO THE

#### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT MARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITIORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE OVER PURPOSE, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT IDED BY THE PLANT VARIETY PROTECTION ACT. IN THE UNITED STATES SEED OF THIS VARIETY (I) BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321

#### SOYBEAN

'Macon'

In Vestimone Merrot. I have hereunto set my hand and caused the seal of the Mant Unrite Atotection Office to be affixed at the City of Washington, D.C. this eighth day of September, in the year of gur Lord two thousand.

Sur naj 10 Commissioner Plant Variety Skin

of Agriculture

REPRODUCE LOCALLY. Include form number a	nd date on all reprodu	etions			3.1 8, 1.3. 1		
U.S. DEPARTMENT OF AGE	ICULTURE	o il o il o	FORM APPROVED - OMB NO. 0581-00 The following statements are made in accordance with the Privacy Act				
AGRICULTURAL MARKETIN SCIENCE DIVISION - PLANT VARIETY			1974 (5 U.S.C. 552a),				
APPLICATION FOR PLANT VARIETY P	ROTECTION CERTIF	FICATE	Application is required in order to determine if a plant variety pro- certificate is to be issued (7 U.S.C. 2421). Information is held confi- until certificate is issued (7 U.S.C. 2426).				
1. NAME OF APPLICANT(S) las it is to appear on the Certificate	)	<del>*************************************</del>	2. TEMPORARY DESIGNATION OR	2 VARIETY MANG			
University of Illinois			EXPERIMENTAL NUMBER	3. VARIETY NAME			
			LN89-295	Macon			
				The same			
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZII	Code, and Country)		6. TELEPHONE (include area code)	FOR OFFICIAL USE ONL	122.70		
Illinois Agricultural Experi			217- <del>333-0240</del> 🕦	PVPO NUMBER			
1301 W. Gregory	mene Seacion		1	9600135			
211 Mumford Hall			244-2795	7000133			
University of Illinois			6. FAX (include area code)	F DATE			
Urbana, IL 61801			·	L			
orbana, it olool				1 FEB 9, 199	,		
7. GENUS AND SPECIES NAME	B. FAMIL	Y NAME (Botanie		3. C.			
Glycine max (L.) Merr.	į.			FIUNG AND EXAMINATION FEE			
Glycine max (L.) Hell.	regu	ıminosae		[ * 245			
9. CROP KIND NAME (Common name)				E DATE			
•				2_Q_Qr			
Soybean				<u>"                                     </u>			
10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM	M OF ORGANIZATION (corpor	ration, partnershi	, association, etc.) (Common name)	C CERTIFICATION FEE:			
State University				11: 500 <del>500</del>			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION			12. DATE OF INCORPORATION	E DATE			
				P ×/7/00			
13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S),	<u>₩.</u>			21,12			
1301 W. Gregory Drive, Room 211 University of Illinois Urbana, IL 61801				15. FAX finclude area code)			
16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBM	NITTED (Follow instructions or	n reverse)					
a. 🗵 Exhibit A. Origin and Breeding History of the Variety							
b. K Exhibit B. Statement of Distinctness							
c. 🖾 Exhibit C. Objective Description of the Variety							
d. K Exhibit D. Additional Description of the Variety				•			
c. 🖾 Exhibit E. Statement of the Basis of the Applicant's O	wnership						
1. See Voucher Sample (2,500 viable untreated seeds or, for	tuber propagated varieties ve	rification that tis	sue culture will be deposited and mainta	ined in a public repository)			
g. 🖾 Filing and Examination Fee (\$2,450), made payable to	"Tressurer of the United Stat	tes" (Mail to PVF	0)				
17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIET   X YES #1 "yes," answer items 18 and 19 below!	TY BE SOLD BY VARIETY NA	ME ONLY, AS A	CLASS OF CERTIFIED SEED? (See Sec	tion 83(a) of the Plant Variety Protection	Act/?		
8. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIET GENERATIONS?				S OF PRODUCTION BEYOND BREEDER S	EED7		
PS YES □ NO			☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED				
20. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VAI		D, OFFERED FOR	SALE, OR MARKETED IN THE U.S. OF	OTHER COUNTRIES?	· · · · · · · · · · · · · · · · · · ·		
TES (If "yes," give names of countries and dates)	₩ мо						
21. The applicant(s) declare that a viable sample of basic seed of the	e variety will be furnished wit	ith application an	I will be replenished upon request in sec	ordance with such regulations as may be			
applicable, or for a tuber propagated variety a tissue culture wi	ill be deposited in a public rep	ository and main	tained for the duration of the certificate.	<del></del>			
The undersigned applicant(s) is(are) the owner(s) of this sexuall Section 41, and is entitled to protection under the provisions of	y reproduced or tuber propaga Section 42 of the Plant Variet	ated plant variety ty Protection Act	, and believe(s) that the variety is new,	distinct, uniform, and stable as required in	<b>.</b>		
Applicant(s) island-informed that false representation herein car	) jeopardize protection and res	sult in penalties					
IGNATURE OF APPLICANT (Owner(s))		7	OF APPLICANT (Owner(s))		· ·		
X & MADO							
WW /TO C					-,,,		
AME (Please print or type)		NAME (Plea	se print or type)				
onald A. Holt		- 1					
APACITY OR TITLE	DATE	CAPACITY	OR TITLE	DATE			
irector	02/02/96			DATE	•		
	02/02/90						
D-470 (04-96) (Previous editions are to be destroyed)			<i>(</i> 5				

#### **SOYBEAN**

'Macon'

14a. Exhibit A:

Pedigree: Sherman x Resnik

Macon originated as a  $F_4$  plant selection from the cross of Sherman x Resnik. The Sherman x Resnik cross was made in the field in the summer of 1986, and the  $F_1$  generation grown in the field in 1987. The  $F_2$ ,  $F_3$  and  $F_4$  generations were advanced by single-seed-descent in Puerto Rico during the winter 1987-1988, and at Urbana, IL in the summer 1988. The  $F_5$  generation was grown as plant rows in 1989 and single plant rows selected for evaluation in replicated yield trials in Illinois in 1990 and 1991. Macon was evaluated as LN89-295 in Preliminary IIIA in 1992, and in Uniform III Test in 1993-1994 of the Uniform Soybean Tests Northern Region Test(3).

Macon appears stable and uniform through five generations of selfing and during seed increase program for other characteristics.

### 14b. Exhibit B: Novelty Statement

Macon is most similar to Resnik. Macon differs from Resnik having white flowers while Resnik has purple flowers. Macon with no known gene for phytophthora resistance is susceptible to phytophthora rot(caused by *Phytophthora sojae*) races 1, 2, 3, 4, 5, 6, 7, 8, and 9 while Resnik with the *Rps1-k* gene is resistant to phytophthora rot races 1, 2, 3, 4, 5, 6, 7, 8, and 9.

#### U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION PLANT VARIETY PROTECTION OFFICE BELTSVILLE, MARYLAND 20705

## OBJECTIVE DESCRIPTION OF VARIETY SOYBEAN (Glycine max L.)

30 1 DEF	W (Gryeine max L.)	
NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
University of Illinois	LN89-295	Macon
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code		FOR OFFICIAL USE ONLY
1301 W. Gregory, Illinois Ag. Experiment 211 Mumford Hall	Station	PVPO NUMBER
University of Illinois, Urbana, IL 61801		9600135
Choose the appropriate response which characterizes the vari in your answer is fewer than the number of boxes provided, Starred characters ** are considered fundamental to an adequate when information is available.	place a zero in the first box w	hen number is 9 or less (e.g., 0 9).
1. SEED SHAPE:	1	
	Ĭ	
	l <sup>™</sup> l	
1 = Spherical (L/W, L/T, and T/W ratios = $\langle 1.2 \rangle$ 3 = Elongate (L/T ratio $\rangle$ 1.2; T/W = $\langle 1.2 \rangle$		L/W ratio > 1.2; L/T ratio = < 1.2) L/T ratio > 1.2; T/W > 1.2)
2. SEED COAT COLOR: (Mature Seed)	· · · · · · · · · · · · · · · · · · ·	
1 = Yellow 2 = Green 3 = Brown	4 = Black 5 = Other /	Specify)
3. SEED COAT LUSTER: (Mature Hand Shelled Seed)		
1 = Duff ('Corsoy 79'; 'Braxton') 2 = Shiny ('Nebso	y'; 'Gasoy 17')	
4. SEED SIZE: (Mature Seed)		
Grams per 100 seeds		
5. HILUM COLOR: (Mature Seed)		
6 1 = Buff 2 = Yellow 3 = Brown 4	= Gray 5 = Imperfect Blac	ck 6 = Black 7 × Other (Specify)
6. COTYLEDON COLOR: (Mature Seed)		
1 = Yellow 2 = Green		
7. SEED PROTEIN PEROXIDASE ACTIVITY:		
1 = Low 2 = High		
8. SEED PROTEIN ELECTROPHORETIC BAND:	100000	
1 = Type A (SP1 <sup>a</sup> ) $2 = \text{Type B (SP1}^b$		
9. HYPOCOTYL COLOR:		
1 = Green only ('Evans'; 'Davis') 2 = Green with 3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71') 4 = Dark Purple extending to unifoliate leaves ('Hodgson'; '	bronze band below cotyledons (*) Coker Hampton 266A*)	Woodworth'; 'Tracy')
10. LEAFLET SHAPE:		
1 = Lanceplate 2 = Oval 3 = Ovata	A = Other (Speciful	

•	1.7.7								960	
11.	LEAFL	ET SIZE:					<u> </u>			
\$ .	2		nsoy 71'; 'A531: awford'; 'Tracy'		2 = Mediu	im ('Corsoy	79'; 'Gasoy 17')			
12.	LEAF	COLOR:				<u> </u>	<del></del>		· · · · · · · · · · · · · · · · · · ·	
	2		n ('Weber'; 'Yoi n ('Gnome'; 'Tra		2 = Mediu	ım Green (°C	Corsoy 791; 1Brax	ton')		
<u> </u>	FLOW	R COLOR: ,								
	1	1 = White	2 = Pu	ırple	3 = White wit	th purple thr	oat			
t 14.	POD C	DLOR:		,						<del></del>
	2	1 = Tan	2 = Brown	n ;	3 = Black					
T 15.	PLANT	PUBESCENCE	COLOR:	·						
	2	1 ≈ Gray	2 = Brown	n (Tawny)						
16.	PLANT	TYPES:					·····			
	2		Essex'; 'Amsoy 7 nome'; 'Govan')		2 = Intern	nediate ('Am	ncor'; 'Braxton')			
<b>t</b> 17.	PLANT	навіт:								
<b>†</b> 17.	PLANT	1 = Determina	te ('Gnome'; 'Br nate ('Nebsoy'; '			Determinate	('Will')			
· . · · · · · · · · · · · · · · · · · ·	3	1 = Determina				Determinate	('Will')	- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1-		
· . · · · · · · · · · · · · · · · · · ·	3 MATUR	1 = Determina 3 = Indetermin				Determinate 5 ≃ II 13 = X	('Will') 6 ≈ III	7 = IV	8 = V	
18.	MATUR	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI	2 = 00	Improved Pelic 3 = 0 11 = VIII	4 = I 12 = IX	5 ≃ II 13 = X		7 = IV	8 = V	
18.	MATUR	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI	2 = 00 10 = VII	Improved Pelic 3 = 0 11 = VIII	4 = I 12 = IX	5 ≃ II 13 = X		7 = IV	8 = V	
18.	MATUR	1 = Determina 3 = Indetermin  RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS	2 = 00 10 = VII	3 = 0 11 = VIII	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
( 18. ( 0	MATUR  6  DISEAS  BACT	1 = Determina 3 = Indetermin  RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS  Bacterial Pusto	2 = 00 10 = VII (Enter 0 = Not	3 = 0 11 = VIII Tested; 1 = Su	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
T 18.  ☐ 0  T 19.	MATUR  6  DISEAS  BACT	1 = Determina 3 = Indetermin  RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh	2 = 00 10 = VII (Enter 0 = Not SES:	3 = 0 11 = VIII Tested; 1 = Su as phaseoli var.	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
18. 0	MATUR  6 DISEAS  BACT  0 0	1 = Determina 3 = Indetermin  RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas	3 = 0 11 = VIII Tested; 1 = Su as phaseoli var.	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
18. 0	MATUR  6 DISEAS  BACT  0 0	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseuco	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas	3 = 0 11 = VIII Tested; 1 = Su as phaseoli var.	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
18. 19. *	MATUR  6 DISEAS  BACT  0 0	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseudo) LL DISEASES: Brown Spot (S	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas t (Pseudomonas domonas tabaci)	3 = 0 11 = VIII Tested; 1 = Su as phaseoli var.	4 = 1 12 = IX sceptible; 2 = Re	5 ≃ II 13 = X		7 = IV	8 = V	
18. 19. *	MATUR  6 DISEAS  BACT  0 0	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseudo) LL DISEASES: Brown Spot (S	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas domonas tabaci)	3 = 0 11 = VIII Tested; 1 = Su as phaseoli var.	4 = I 12 = IX sceptible; 2 = Ro	5 ≃ II 13 = X			8 = V ther (Specify)	
18. 0 19.	MATUR  DISEAS  BACT  O  O  FUNGA	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseudo L DISEASES: Brown Spot (S Frogeye Leaf S Race 1	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas domonas tabaci) Septoria glycines	3 = 0 11 = VIII  Tested; 1 = Su as phaseoli var. glycinea)	4 = I 12 = IX sceptible; 2 = Ro	5 = 11 13 = X esistant)	6 = III			
18. 0 19. *	MATUR  DISEAS  BACT  O  FUNGA  1	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseuco AL DISEASES: Brown Spot (S Frogeye Leaf S Race 1 Target Spot (C	2 = 00 10 = VII  (Enter 0 = Not SES: ule (Xanthomonas domonas tabaci) Septoria glycines Spot (Cercospore  0 Race 2	3 = 0 11 = VIII  Tested; 1 = Su as phaseoli var glycinea)  0 Rac iicola)	4 = 1 12 = 1X (sceptible; 2 = Ro	5 = 11 13 = X esistant)	6 = III			
18. 0 19.	MATUR  6 DISEAS  BACT  0 0 FUNGA	1 = Determina 3 = Indetermin RITY GROUP: 1 = 000 9 = VI  SE REACTION: ERIAL DISEAS Bacterial Pusto Bacterial Bligh Wildfire (Pseuco AL DISEASES: Brown Spot (S Frogeye Leaf S Race 1 Target Spot (C) Downy Mildey	2 = 00 10 = VII  (Enter 0 = Not SES:  Ule (Xanthomonas domonas tabaci) Septoria glycines Spot (Cercospora  0 Race 2	3 = 0 11 = VIII  Tested; 1 = Su as phaseoli var. glycinea)  0 Rac iicolal	4 = 1 12 = 1X (sceptible; 2 = Ro	5 = 11 13 = X esistant)	6 = III			

19. DISEASE REA	CTION: (Enter 0°= Not Tested; 1 = Susceptib	le; 2 = Resistant) (Continued)		
	SEASES: (Continued)	•		•
Pod ar	nd Stem Blight <i>(Diaporthe phaseolorum var; so</i>	jae)		
0 Purple	Seed Stain (Cercospora kikuchii)			
0 Rhizod	tonia Root Rot (Rhizoctonia solani)			
Ρηγιορ	phthora Rot (Phytophthora megasperma var. sc	riael		
* 1 Race 1	1 Race 2 1 Race 3	1 Race 4 1 Race	5 TRace 6	l Race 7
VIRAL DISE	<u> </u>			
0 Bud Bli	ght (Tobacco Ringspot Virus)			
	Mosaic (Bean Yellow Mosaic Virus)			
<b>4</b> 🗍	Mosaic (Cowpea Chlorotic Virus)			
	ttle (Bean Pod Mottle Virus)			
	ottle (Soybean Mosaic Virus)			
NEMATODE D				
	Cyst Nematode (Heterodera glycines)			
★ 1 Race 1	1 Race 2 1 Race 3	1 Race 4 Other (		
0 Lance No	ematode (Hoplolaimus Colombus)	Other (	Specify)	
. [ ]	Root Knot Nematode (Meloidogyne incognita	a J		
<del>ر ب</del>	Root Knot Nematode (Meloidogyne Hapla)	•		
	oot Knot Nematode (Meloidogyne arenaria)			
==	Nematode (Rotylenchulus reniformis)	•		
	DISEASE NOT ON FORM (Specify):			
				<del></del>
20. PHYSIOLOGICAL	RESPONSES: (Enter 0 = Not Tested; 1 = Sur	sceptible; 2 = Resistant)		
* I Iron Chio	rosis on Calcareous Soil			
Other (Spe	ecify)			
21. INSECT REACTIO	N: (Enter 0 = Not Tested; 1 = Susceptible; 2 =	= Resistant)		····
1 . 1	ean Beetle (Epilachna varivestis)			
Potato Lea	f Hopper (Empoasca fabae)			
Other (Spe	cify)			
22. INDICATE WHICH	VARIETY MOST CLOSELY RESEMBLES T	HAT SUPMITTED		
CHARACTER	NAME OF VARIETY			
Plant Shape	Resnik	CHARACTER Seed Coat Luster	NAME OF VA Thorne	RIETY
Leaf Shape	Resnik	Seed Size	Resnik	
Leaf Color	Resnik	Seed Shape	Resnik	
Leaf Size	Resnik	Seedling Pigmentation	Thorne	
OBMING				
ORM LMGS-470-57 (6-8	3)			<del></del>

#### 23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100	NO. SEEDS/
				CM Width	CM Length	% Protein	% Oit	SEEDS	POD
gubhhileb/ Macon	133	1.7	84	4.8	11.5	41.0	20.5	17.3	2.5
Resnik Name of Similar Variety	127	1.5	79	4.5	10.2	41.6	20.9	14.8	2.5

#### PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

- 1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
- 2. Buttery, B.R. and R.I. Buzzell, 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
- 3. Hymowitz, T. 1973. Electrophoretic analysis of SBTI-A<sub>2</sub> in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
- 4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

## 14d. Exhibit D. Additional Description of Variety

Macon is an indeterminate cultivar classified as Group III maturity (relative maturity 3.9) 5 days later than Resnik. It is best adapted to 38 to 41° N lat. When compared with Resnik, Macon averaged 10% higher seed yield, 2.5 cg larger seeds, 0.6% percentage unit lower seed protein and 5 cm taller plant height. Macon is similar to Resnik in lodging and seed quality scores.

### 14e. Exhibit E. Statement of Basis of Applicants Ownership

Macon was originated and developed by Professor C. D. Nickell of the Department of Crop Sciences, Illinois Agricultural Experiment Station, University of Illinois. By agreement between employee and the University of Illinois, all rights to any invention, discovery, and development made by an employee are assigned to the University of Illinois. No rights to such invention, discovery, and development are retained by the employee.